

9/11/97

## **pH in Smoke Study Plan for Massachusetts Regulation**

### **METHOD**

- Modified PRD
  - Time from smoke collection to pH measurement:  $10 \pm 2$  minutes
  - DI water will be purged with helium to degas the water

### **# CIGARETTES**

- 1 Cigarette per run
- 4 replicates of each cigarette type

### **SMOKING MACHINE**

- Filtronia Smoking machine

### **SMOKING CONDITIONS FOR EVALUATION**

- 45 mL puff volume
- 30 sec. puff interval
- 2 sec. puff duration

### **LOCATION**

- PTL Lab

### **PEOPLE**

- PRD
  - Miles
- PTL
  - Charlene Callicutt
  - Technician

### **INITIAL STUDY**

- Reference Cigs
- 3 ventilation levels
  - 0% blocked ventilation
  - 50% blocked ventilation
  - 100% blocked ventilation

### **REQUIRED STUDY**

- Mass. Cigarettes
  - Marlboro
  - Basic - ?

### **TAPE FOR BLOCKING VENTILATION**

- 0.5 inch (12.7mm) standard 3M tape

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#### TESTING SEQUENCE

- Calibration standards pH 4, 7, 10
- Calibration standard check pH 7
- Sample blank (cigarette puffed on smoking machine without being lit)
- IM 15/16
- Test samples (4)
- Calibration standard check pH 7

#### TIMELINE

- Obtain needed equipment: 9/12/97
  - pH meter
  - pH electrode
  - impinger glassware
  - computer
- Have written test plan and work instructions: 9/17/97
- Evaluate initial setup on reference cigarettes: 9/30/97
- Complete initial study as described above: 10/15/97
- Complete Massachusetts cigarettes: 11/26/97